

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM123522
2. Name of Operator COG OPERATING, LLC		6. If Indian, Allottee or Tribe Name
Contact: ABIGAIL MONTGOMERY E-Mail: Abbym@bcmmandassociates.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 W. ILLINOIS MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-580-7161	8. Well Name and No. WISH FEDERAL 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T20S R33E 1980FNL 1650FEL 32.545913 N Lat, 103.647865 W Lon		9. API Well No. 30-025-26241
		10. Field and Pool or Exploratory Area TEAS; BONE SPRINGS
		11. County or Parish, State LEA CO COUNTY, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> New Construction
	<input checked="" type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Production (Sta)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily A
	<input type="checkbox"/> Water Disposa

INT TO PA KS  
P&A NR \_\_\_\_\_  
P&A R \_\_\_\_\_

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

- Follow COA Procedure*
1. Tag 7" CIBP @ 9460 w/ 35 sx cmt on top.
  2. Set 7" CIBP @ 8750'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx @ 8750-8650'.
  3. Spot 25 sx cmt @ 5680-5575'. WOC & Tag (9 5/8 Shoe)
  4. Perf & Sqz 50 sx cmt @ 3875-3745'. WOC & Tag. (7 Rivers)
  5. Perf & Sqz 110 sx cmt @ 3450-3150'. WOC & Tag. (Yates & DV Tool)
  6. Perf & Sqz 50 sx cmt @ 1550-1445'. WOC & Tag (13 3/8 Shoe & Rustler)
  7. Perf & Sqz 50 sx cmt @ 100'-Surface.
  8. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

**SUBJECT TO LIKE  
APPROVAL BY STATE**

**APPROVED**  
**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**WITNESS**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #382331 verified by the BLM Well Information System For COG OPERATING, LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 08/09/2017 ()	
Name (Printed/Typed) ABIGAIL MONTGOMERY	Title AGENT
Signature (Electronic Submission)	Date 07/24/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>Paul R. Swartz</u> 02/07/2018	Title <u>T PET</u>	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

**BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**FOR RECORD ONLY**

(Instructions on page 2) \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

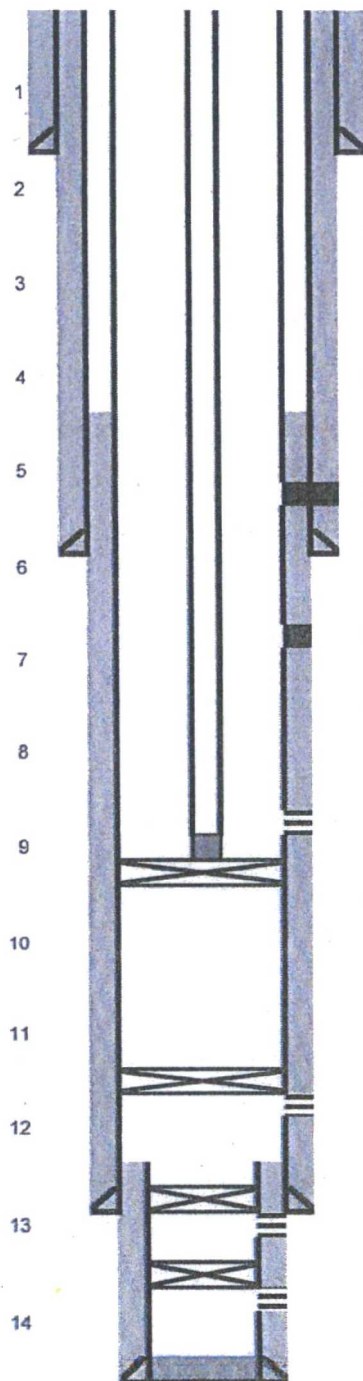
MW/OCD 02/19/2018



Author: MRM (7/2017)  
 Well Name: **Wish Federal** Well No. #1  
 Field: Teas Bone Spring API #: 30-025-26241  
 County: Lea Prop #:   
 State: New Mexico Zone: Bone Spring  
 Spud Date: 2/17/1979 1980 FNL & 1650 FEL  
 GL: 3623' Sec 27 T20S R33E  
 KB: 3644'

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13.375"	H-40	48	1,497	1,250	surf
Inter Csg	9.625"	S-95	40	5,629	2,600	surf
Prod Csg	7"	N-80, S-95	23 & 26	12,662	1,300	4,110
Liner	4.5"	N-80, S-95, P-110	11.60	14,428	660	12,200

Originally drill  
 Amoco P&A  
 Marbob corp  
 COG took ov  
 OGX Operati  
 ROCA Produ  
 COG took ba



#### 17 1/2" hole

13-3/8" (48#) @ 1497' w/1250 sx  
 TOC @ surf

#### 12 1/4" hole

9-5/8" (40#) @ 5629' w/2600 sx  
 DV tool @ 3205 1st stage - 800 sx, circ 20 sx  
 TOC @ surf 2nd stage 1800 sx, circ 700 sx

#### 2 7/8" tbg w/ TAC @ 9055'

279 jts J-55

5190'-5200' (Yates) 33 shots - 06/18/2010 acidized with 500 gal 7-1/2% NEFE  
 squeezed perms 06/23/2010 - 150 sx, circ 4 bbls

6816'-6820' (Delaware) 15 shots - 07/01/2010 acidized with 500 gal 7-1/2% NEFE  
 squeezed perms 07/05/2010 - 100 sx, circ 25 bbls

#### 8 3/4" hole

7" (23,26#) @ 12,662' w/1300 sx  
 TOC @ 4110'

8795'-8968' (Bone Spring) 20 shots - 10/19/2010 acidized with 2000 gal 7-1/2% HCL and 11/11/2010 frac'd with 300,600 lbs

#### CIBP @ 9460' w/ 35' cmt on Top (10/15/2010)

9504'-9593' (Bone Spring) 4 spf - 01/20/1984 acidized with 5000 gal 7-1/2% NEFE HCL  
 07/17/2010 acidize with 2000 gal 7-1/2% NEFE and frac'd w/ 62,507 lbs

#### CIBP @ 11630' w/ 35' cmt on Top (01/20/1984)

11728'-11740' (Wolfcamp) 4 spf - 03/14/198:

#### CIBP @ 12900' w/ 35' cmt on Top (03/14/1983)

13020'-13114' (Atoka) 4spf - 06/30/1979

#### CIBP @ 13585' w/ 35' cmt on Top (06/30/1979)

13622'-13728' (Morrow) 4 spf - 06/15/1979 acidized with 6000 gal 7-1/2% MSR-100  
 13757'-13854' (Morrow) 4spf - 05/28/1979 acidized with 4000 gal 7-1/2% MSR-100

#### 6 1/2" hole

4-1/2" (11.60#) @ 14,428' w/660 sx  
 TOL @ 12,392' and TOC @ 12,200'

TD @ 14,428'  
 PBTD @ 9,425'

Operator: COG Operating, LLC

Surface Lease: NM123522

Case No: NM123522

Subsurface Concerns for Casing Designs: R111P C R, 4csgs KFC

Well Status: plg NOI

Spud date: 2/17/1979

Plug'd Date: 5/21/1985

Reentry Date: 06/07/10

BHL: NM123522

Lease Agreement

Well: WISH FEDERAL-1

API: 3002526241

@ Srfce: T20S-R33E,27.1980n1650e

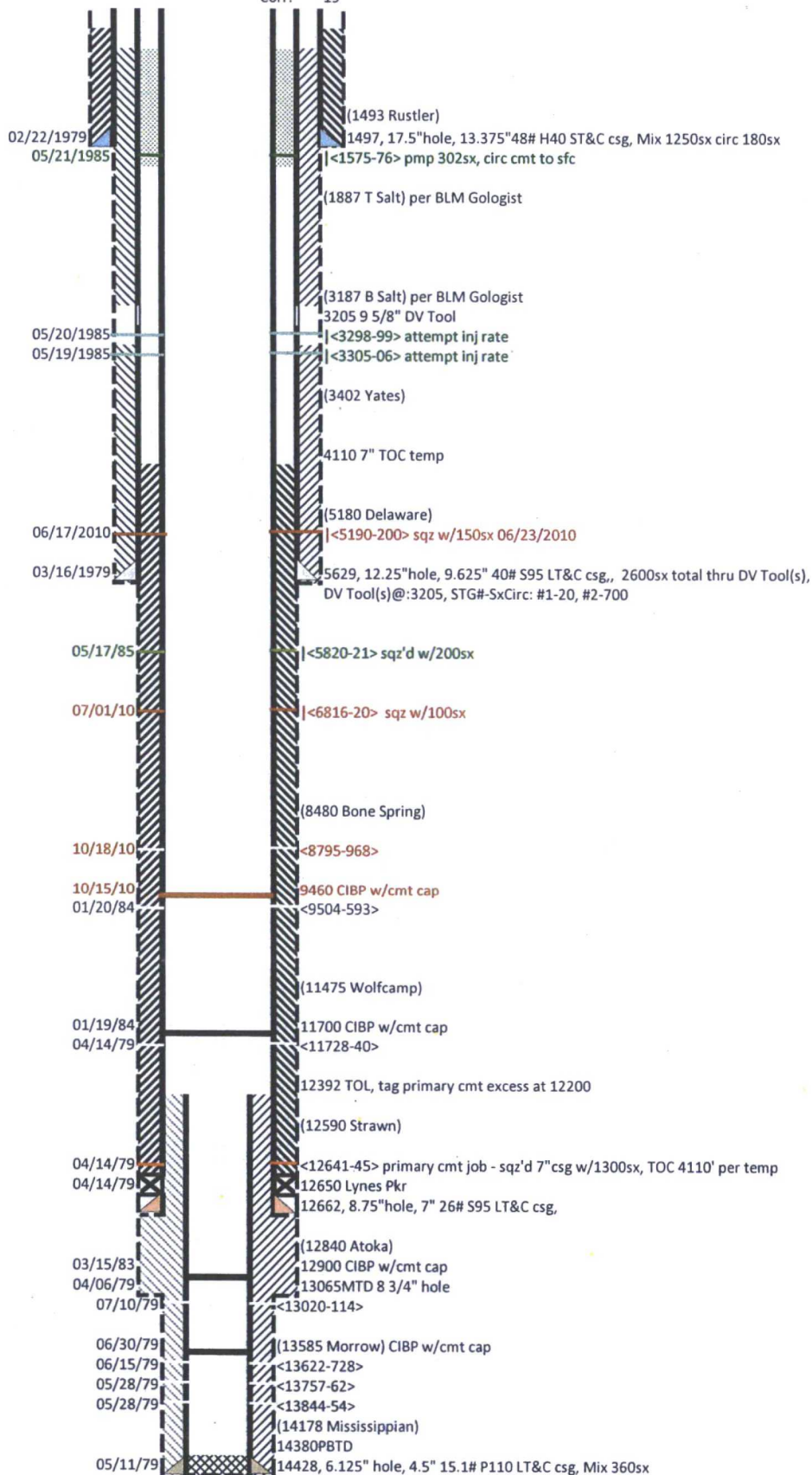
@ M TD: T20S-R33E,27.1980n1650e

Estate: FIFIF

KB: 3642

GL: 3623

Corr: 19





**R-111-P: 3 strings circ, a casing seal test of 600psi(hydr) for the surface and 1000 for intermediate, <100psi drop in 30min. Capitan Reef: 4 casing strings, production cement to cover casing 50 feet above Capitan Reef top.**

**Lesser Prairie-Chicken.**

13 3/8 surface csg in a 17 1/2 inch hole.				Design Factors			SURFACE	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	48.00	H 40	ST&C	4.48	1.1	0.58	1,497	71,856
w/8.4#/g mud, 30min Sfc Csg Test psig: 558				Tail Cmt does not circ to sfc.		Totals:	1,497	71,856

**Comparison of Proposed to Minimum Required Cement Volumes**

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	1250	2242	1051	113	9.00	1748	2M	1.56

9 5/8 casing inside the 13 3/8 casing.				Design Factors			2nd Casing	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.00	S 95	LT&C	3.81	1.42	1.16	5,629	225,160
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500						Totals:	5,629	225,160

**The cement volume(s) proposed may achieve a top 0 feet from surface.**

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess DVT Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	2600	4414	1886	O K	10.20	3030	5M	0.81

7 casing inside the 9 5/8				Design Factors			3rd Casing	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	26.00	S 95	LT&C	1.83	1.36	1.32	12,662	329,212
w/8.4#/g mud, 30min Sfc Csg Test psig: 495						Totals:	12,662	329,212

**The cement volume(s) proposed may achieve a top 0 feet from surface.**

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
8 3/4	0.1503			2128		8.70	3347	5M	0.55

Tail cmt proposed for the csg below could overlap the previous csg shoe.

4 1/2 Liner w/top @ 12392				Design Factors			4th Casing	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	15.10	P 110	LT&C	13.21	2.20	2.21	2,036	30,744
w/8.4#/g mud, 30min Sfc Csg Test psig: 3,174						Totals:	2,036	30,744

**The cement volume(s) proposed may achieve a top 12392 feet from surface.**

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 1/8	0.0942	360	432	198	118	8.70			0.56



## **Conditions of Approval**

**COG Operating, LLC**

**Wish – 01, API 3002526241**

**T20S-R33E, Sec 27, 1980FNL & 1650FEL**

**February 7, 2018**

1. **Within 90 days of these conditions of approval for the processed Electronic Submission #382331 notice of intent begin wellbore operations or request an extension.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location during this workover operation.**
3. **Conditions of Approval reflect a procedure based on available documentation for this wellbore. The BLM workover witness and NOI approver may adjust operations so as not to hinder achievable abandonment requirements.**
4. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15.
5. Subject to like approval by the New Mexico Oil Conservation Division.
6. Notify 575-393-3612 Lea Co as work begins. If there is no response leave a voice mail with the API#, workover purpose, and a call back phone number.
7. Surface disturbance beyond the existing pad must have prior approval.
8. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
9. Functional H<sub>2</sub>S monitoring equipment shall be on location.
10. Blow Out Prevention Equipment 5000 (5M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
11. Created operation waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during any other crew-intensive operations.
12. The BLM PET is to run tbg tally and agree to cement volumes and placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.
13. **Cementing procedure is subject to the next four numbered paragraphs.**
14. Mix cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft to the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 ½" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.



15. Below 7500ft Class "H" and above 7500ft Class "C" neat cement plugs(s) will be necessary. Isolation plugs of Class "C" neat cement to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and Class "H" neat cement to be mixed 16.4#/gal, 1.06ft<sup>3</sup>/sx, 4.3gal/sx water.
16. A minimum WOC time of 4 hours(C) & 8 hours(H) is recommended for plugs that require a tag or pressure test.
17. Minimum requirement for mud placed between plugs is 25 sacks of saltwater gel per 100 barrels in 9 lb/gal brine.
18. Remove plugs and tag the cmt cap on the 13585' CIBP.
19. Set a min 25sx balanced "H" cmt plug on the 13585' CIBP. WOC, and tag the plug with tbg at 13260 or above covering the 13585' Morrow formation top.
20. Set a CIBP within 100' of the top Atoka perf of 13020'.
21. Set a min 40sx balanced "H" cmt plug on the CIBP above the top Atoka perf of 13020'. WOC, and tag the plug with tbg at 12500' or above covering the 12840' Atoka formation top, and the 7" shoe at 12662 and the Strawn formation top at 12590'. *TOL @ 12,392'*
22. Set a CIBP within 100' of the top Wolfcamp perf of 11728'.
23. Set a min 65sx balanced "H" cmt plug on the CIBP above the top Wolfcamp perf of 11728'. WOC, and tag the plug with tbg at 11410' or above covering the 11475' Wolfcamp formation top.
24. Set a CIBP within 100' of the Bone Spring perf of 9504'. Dump bail a 35' cmt cap on the CIBP.
25. Set a CIBP within 100' of the top Bone Spring perf of 8795'.
26. Set a min 75sx balanced "H" cmt plug on the CIBP above the top Bone Spring perf of 8795'. WOC, and tag the plug with tbg at 8420' or above covering the 8480' Bone Spring formation top.
27. Pressure test the casing to 500psig after tagging the Bone Spring cmt plug. *SQ. Holes 6816'-6820'*
28. Set a min 25sx balanced "C" cmt plug across the 9 5/8" csg shoe from 5700. WOC, and tag the plug with tbg at 5540' or above. *SQ. Holes 5190'-5200'*
29. R-111-P Secretary Potash Area plugging procedures require a solid cmt plug from 50ft or more below to 50ft or more above the salt section in the drilled wellbore diameter.
  - A. Run a CBL 3300' to surface under 0psig and verify cement coverage in the 7" and 9 5/8" csg annulus. Set a 230sx balanced "C" cmt plug from 3250'. WOC, and tag the plug with tbg at 1830' or above.

OR:

- B. Perforate 7" csg at 3250' below the Base of Salt and at 1800' above the Top of Salt. Set a Pkr below between the perms and establish circulation from 3250' to 1800' through the 7" and 9 5/8" csg annulus. Set a CICR at 1875'. Mix and suicide sqz a 400sx slurry into the annulus leaving 53bbls (1375') cmt in the 7" and 41bbls (1450') cmt in the annulus. Sting out of the retainer and set a 13sx cmt plug on the CICR. WOC, and tag the plug with tbg at 1800' or above.
30. Set a min 30sx balanced "C" cmt plug across the 13 3/8" csg shoe from 1600'. WOC, and tag the plug with tbg at 1430' or above.
31. Perf at 60' or below. Establish circulation through the 7" x 9 5/8" annulus. Fill with ( $\pm$ 20sx) balanced "C" cmt plug and verify the 7" x 9 5/8" annulus and 13 3/8" csg from 60' cemented to surface.

32. File **subsequent sundry** Form 3160-5 within 30 days of workover procedures. Include (dated daily) descriptions of the well work, i.e. procedure descriptions and setting depths of each plug in the subsequent sundry.

**Lesser Prairie Chicken Habitat Area Dry Hole Markers**

Stamp or engrave (3/8" letters) information for the plugged well on 8"x 8" aluminum plate of 1/8", 12 gauge, or .080 sign material similar to this example:

**Ajax Operating Company**  
**Tailspin – 22**  
**1980FNL & 660FWL - Sec 16 - T22S-R31E**  
**Lease LC029567                      API 3001534567**  
**Plugged July 17, 2017**

1. Center a 3 to 4 foot pipe at a right angles on a 8"x8"x 1/8" or 3/16" steel plate and weld the pipe to the plate.
2. Cement the pipe vertically inside the abandoned surface casing. Leave the steel plate about 2" above and horizontal to ground level.
3. Fix the well information plate to the steel plate with ¼ inch bolts and locking nuts or self-tapping fine threaded screws (one in each corner).
4. On the BLM Form 3160-5 subsequent report of abandonment state that a ground level dry hole marker installed as required by BLM and NMOCD Order No. R-12965.



## Reclamation Objectives and Procedures

In Reply Refer To: 1310

**Reclamation Objective:** At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as needed. This will apply to well pads, facilities, and access roads. Barricade all access road(s) at the starting point. If reserve pits have not been adequately reclaimed due to salts or other contaminants, propose a plan for BLM approval to provide restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations should have included adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For locations and/or access roads not having an approved plan, or an inadequate plan for surface reclamation the operator must submit a proposal describing the procedures for reclamation. The appropriate time for submittal would be when filing the Notice of Intent, or with the Subsequent Sundry Report of Abandonment on Form 3160-5. The final reclamation goal is to be completed within 6 months of wellbore abandonment.
3. With an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or concerns, contact a BLM specialist to assist you. It may be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives.
4. Upon reclamation conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a BLM specialist to inspect the location to verify work was completed as per approved plans.



5. The BLM approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been tentatively reestablished. If the objectives have not been met BLM will be notify the operator of the required corrective actions.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time the full BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the full BLM objectives have been met, submit a Final Abandonment Notice (FAN) Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
7. At this time a BLM specialist will again inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability for the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Environmental Protection Specialist  
575-234-5909, 575-361-2648 (Cell)

Robertson, Jeffery  
Natural Resource Specialist  
575-234-2230, 575-706-1920 (Cell)

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612, 575-390-2258 (Cell)

Vance Wolf  
Natural Resource Specialist  
575-234-5979

Jesse Bassett  
Natural Resource Specialist  
575-234-5913, 575-499-5114 (Cell)

Brooke Wilson  
Natural Resource Specialist  
575-234-6237

Paul Murphy  
Natural Resource Specialist  
757-234-5975, 575-885-9264 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230, 575-499-3378 (Cell)

Henryetta Price  
Environmental Protection Specialist  
575-234-5951, 575-706-2780 (Cell)

Shelly Tucker  
Environmental Protection Specialist  
575-234-5905, 575-361-0084 (Cell)